

ABSTRACT OF THE DISCLOSURE

The present invention provides diamond tools, and a method for the formation thereof, using CVD techniques. In one aspect, an ephemeral mold is provided which has a diamond interface surface configured to inversely correspond to the desired shape for the working surface of a diamond layer in a tool. After the mold is provided, various CVD techniques may be used to deposit diamond layers upon the diamond interface surface of the mold. Following diamond deposition upon the diamond interface surface, the mold may be removed by various means, such as chemical etching, etc. Thus, the working surface of the diamond receives a shape which inversely corresponds to the configuration of the mold's diamond interface surface. The diamond mass may then be incorporated into a tool, if such incorporation has not yet taken place.